

**WHAT IS CLAIMED IS:**

1. A cooling system for an enclosure containing heat-producing equipment, said cooling system comprising an air-to-liquid heat exchanger; wherein said heat exchanger absorbs heat from air exiting said enclosure and expels the heat outside an environment  
5 containing said enclosure.

2. The cooling system of claim 1, wherein said heat exchanger further comprises an air vent, whereby air present in said heat exchanger is expelled when said heat exchanger is charged with liquid.

3. The cooling system of claim 1, further comprising a fan situated to move air through said heat exchanger.

4. The cooling system of claim 3, wherein said fan is selected from the group  
15 consisting of a centrifugal blower, a cross-flow blower, an axial fan and a plug fan.

5. The cooling system of claim 3, wherein said heat exchanger and said fan attach to said enclosure.

6. The cooling system of claim 1, further comprising a valve regulating refrigerated liquid flow through said heat exchanger.

7. The cooling system of claim 6, further comprising:  
a temperature sensor sensing a temperature of air exiting said heat exchanger; and  
25 a temperature controller coupled to said sensor and modulating said valve to said temperature of said air exiting said enclosure a temperature approximately equal to the air in the environment.

8. An enclosure containing heat-producing equipment, comprising:  
an air inlet for admitting air from an environment containing said enclosure said  
air absorbing heat from said equipment;  
an air outlet for expelling heated air from said enclosure; and  
5 an air-to-liquid heat exchanger adjacent to said air outlet, said heat exchanger  
absorbing heat from said heated air and expelling said heat outside said  
environment using a refrigerated liquid as a heat transfer medium.

9. The enclosure of claim 8, further comprising a fan disposed to force air through  
10 said heat exchanger.

10. The enclosure of claim 9, wherein said fan is selected from the group consisting  
of a centrifugal blower, a cross-flow blower, an axial fan and a plug fan.

11. The enclosure of claim 10, further comprising a modulating valve for regulating  
15 refrigerated liquid flow through said heat exchanger.

12. The enclosure of claim 11, further comprising a temperature sensor sensing  
temperature of the air exiting said heat exchange and a temperature controller modulating  
20 said valve in response to said temperature to ensure that the air exiting said heat  
exchanger is at a temperature approximately equal to a temperature of said environment.

13. An enclosure containing heat-producing equipment, comprising:  
an air inlet for admitting air from an environment containing said enclosure, said  
25 air absorbing heat from said equipment,  
an air outlet for expelling the air from said enclosure  
means for exchanging heat from the air with a refrigerated liquid;  
whereby the air returns to said environment at a temperature approximately equal  
to the temperature of said environment.

14. The enclosure of claim 13, further comprising means for moving the air through said means for exchanging heat.

15. A cooling apparatus for an enclosure containing heat-producing equipment,  
5 comprising:

an air-to-liquid heat exchanger installed in said enclosure, said heat exchanger  
absorbing heat from air passing through said heat exchanger and rejecting  
the heat outside an environment containing said enclosure; and  
a fan disposed to induce airflow through said heat exchanger.

16. A method for cooling an enclosure containing heat-generating equipment, the  
method comprising:

drawing air into said enclosure from an environment containing said enclosure;  
passing the air in the vicinity of said heat-generating equipment to absorb heat  
15 from said equipment;  
passing the heated air through an air-to-liquid heat exchanger, whereby a  
refrigerated liquid absorbs heat from the air;  
returning the air to said environment; and  
rejecting heat from said refrigerated liquid outside said environment containing  
20 said enclosure.

17. The method of claim 16, further comprising modulating refrigerated liquid flow  
through the heat exchanger so as to regulate a temperature of said air returned to said  
environment at a temperature approximately equal to a temperature of said environment.